



## MAGELLAN POWER CASE STUDY

# Capel Mineral Sands Mine

Iluka is an international mineral sands resource company and is involved in the exploration, project development, operations and marketing of mineral sands products. A major part of Iluka's production base is in Australia, with this particular Magellan Power system manufactured for the Capel Mineral Sands Mine, near Bunbury in Western Australia.



**Client**  
Iluka - Capel Mineral Sands Mine

**Date**  
2018

**Location**  
Capel, Western Australia

**Scope of Project**  
MCR11 Battery Charger 110V 15A



## Client Requirement

The Capel Mineral Sands Mine owned existing Magellan Power chargers which were over 20 years old and were using NiCad batteries. An upgrade to the chargers and batteries was needed, and since the equipment worked reliably for 22 years the company engaged Magellan Power to again design and manufacture the replacement systems.



## Magellan Solution

The charger offered was a replacement of the 110VMCRII015 outdoor charger which was provided in 1996. However, since 1996, battery technology in particular has evolved substantially. For this application the customer was offered Lithium batteries as an alternative to the existing Ni-Cad and VRLA batteries. For the outdoor enclosure (110V charger) the Lithium batteries were offered as they perform better than the NiCad and the VRLA in the high outside temperatures, which can reach over 40°C.

